Physical Security Subgroup

Advanced Planning Briefing for Industry

February 21, 2006

Technical Support Working Group

Combating Terrorism Technology Support Office (CTTSO)

Subgroup Mission

Identify, prioritize, and execute research and development, testing, evaluation, and commercialization efforts that satisfy interagency requirements for physical security support to protect personnel, vital equipment, and facilities against terrorist attacks.

Subgroup Membership

- **Department of Defense:** OUSD(I), DARPA, DIA, DTRA, NSA, JCS, EUCOM, CENTCOM, JFCOM, USAF, USA, USN, USMC, OATSD (NCB)/NM, PSEAG, JIED/TF

- **Department of Homeland Security:** S&T, CBP, IAIP, TSA, USCG, FPS, ODP, FLETC, USSS, FEMA

- **Department of State:** DSS

- **Department of Justice:** NIJ, BOP, BATFE

- **Department of Energy:** OS, NNSA

- **Department of Transportation:** FTA, FRA, FAA, RITA, MARAD, PHMSA

- **OGA:** CIA, NRC, PANYNJ, FRB, US Capitol Police

BAA Success Stories

Tactical Video Surveillance System ("MP in a Box")

➢ **Requirement issued under previous BAA**

➢ **Integrator: SPAWAR, San Diego**

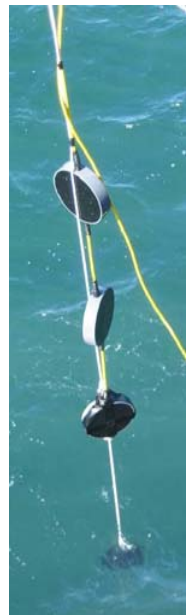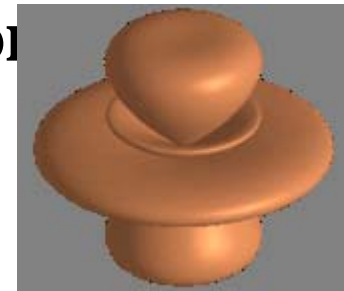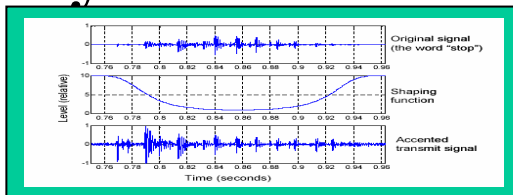➢ **Transitioned to US Army Acquisition Program in 2004 (Product Manager, Force Protection Systems)**

BAA Success Stories

Underwater Loudhailer

- **Diver alert/recall system**
- **Proven clear, communications underwater out to 500 yards**
- **Multiple, multilingual messages**
- **Easy to use interface and operation**

- **To be commercialized by Applied Physical Sciences following field testing**

FY 2006 Requirements

➢ **R-1023 Disassembled Weapon/Bomb Component Detection System**

➢ **R-2186 Remotely-Operated Protected Weapon System**

➢ **R-2187 Protective Barriers with Integrated Intruder Detection System**

➢ **R-2188 Intelligent Video Object Recognition System**

➢ **R-000-PS Unspecified Requirement**

R-1023 Disassembled Weapon/Bomb Detection System

- ➢ **Detect & ID components of firearms or bombs in hand-carried items**

- ➢ **Retrofit to existing X-ray systems**

- ➢ **ID of weapon if parts are assembled (desired)**

- ➢ **Correlate detected components carried by multiple individuals over 2 hr. screening period (desired)**

R-2186 Remotely-Operated Protected Weapon System

➢ **.50 cal automatic weapon in protective mount**

➢ **Survive .50 cal armor piercing ammo (req'd)**

➢ **Survive single RPG7 with "add-on" protection (option)**

➢ **24/7 all weather operations in various terrains**

R-2186 Remotely-Operated Protected Weapon System (cont'd)

➢ **Secure system, open-architecture**

➢ **Scalable design for adaptation to other weapon systems**

R-2187 Protective Barriers with Integrated Intruder Detection System

➢ **Low-cost protective system for electrical substations**

➢ **Barrier to survive hunting rifles & 100 lbs. C4**

➢ **Secure, wireless alarm and assessment provided to remote monitoring station**

R-2187 Protective Barriers with Integrated Intruder Detection System (cont'd)

- ➢ **24/7 operation in harsh environment**

- ➢ **Integrated distributed sensors for broad range of infrastructure assets**

- ➢ **Easily serviced/repaired by field crews**

R-2188 Intelligent Video Object Recognition System (cont'd)

- ➢ **Vehicle identification and tracking system (req'd)**
- ➢ **Track multiple targets in urban environment**
- ➢ **Initially stand-alone system, but intended to integrate with C&C architectures**
- ➢ **Fixed and PTZ camera-to-camera handoff**

R-2188 Intelligent Video Object Recognition System

➢ **Expandable system incorporating legacy CCTVs**

➢ **Record video for 14 days, alarm events permanently retained**

➢ **Optional ID/tracking of other objects**

R-000-PS Unspecified Requirement

➢ **NOT commercially available, or computer security, CBRN equipment, explosives detection, or blast effects/mitigation**

➢ **Novel intrusion sensors/optical systems with significantly lower false/nuisance alarm rates**

➢ **Intruder video/IR assessment & tracking**

➢ **Low cost, expandable, sensor integrating, data fusing C&C systems**

R-000-PS Unspecified Requirement (cont'd)

➢ **Active delay barriers/countermeasures**

➢ **Interoperable communication systems**

➢ **High-throughput, multi-technology, personnel/vehicle, screening equipment**

Subgroup
Contact Information

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